PLAN ID: APARTMENT HOUSE - Option 3 Shed Dormer Apartment House

DESCRIPTION:

2 LEVEL 3 BED 3 BATH 2,493 SQ. FT.

APPLICABLE CODES:

RESIDENTIAL CODE: ACCESSIBILITY:

2015 INTERNATIONAL RESIDENTIAL CODE

2009 ANSI A117.1 & TEXAS ACCESSIBILITY STANDARDS FAIR HOUSING



COVER SHEET

- A0 GENERAL INFORMATION
- A0.1 GENERAL INFORMATION
- A1 FLOOR PLANS
- A2 ROOF PLAN & POWER PLANS
- A3 EXTERIOR ELEVATIONS & BUILDING SECTIONS
- A4 WALL SECTIONS & TYPICAL DETAILS

CODE RESEARCH



APARTMENT HOUSE

Option 3 Shed Dormer Apartment Hous

JOB NO. **180012**

188UE DATE 8/25/20

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COVER

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City of Bryan Texas in conjunction with the Midtown Area Plan



5/8" Gold Bond® Brand FIRE-SHIELD C™

OPPOSITE SIDE: one layer 5/8" proprietary type X gypsum wallboard or gypsum veneer base applied at right angles to studs with 1 1/4" Type W drywall screws 12" o.c. Vertical joints staggered 48" on opposite sides. Sound tested with stude 16" o.c. and open face of mineral fiber insulation blankets toward resilient channel-side of stud space.

(LOAD-BEARING) PROPRIETARY GYPSUM BOARD 5/8" FIREBLOC TYPE C American Gypsum Company CertainTeed Gypsum, Inc. 5/8" ProRoc™ Type C Gypsum Panels G-P Gypsum 5/8" ToughRock® Fireguard® C Lafarge North America Inc. 5/8" Firecheck® Type C National Gypsum Company

Gypsum Wallboard PABCO Gypsum 1/2" FLAME CURB® Super 'C' Temple-Inland Forest Products Corporation

FLOOR-CEILING SYSTEMS, WOOD FRAMED

†Contact the manufacturer for more detailed information on proprietary products.

GA FILE NO. FC 5111 GENERIC WOOD I-JOISTS, GYPSUM WALLBOARD,

Base layer 1/2" type X gypsum wallboard applied at right angles to resilient channels 16" o.c. with 11/4" Type S drywall screws 12" o.c. Resilient channels applied at right angles to minimum 91/2" deep wood I-joists, with minimum 11/4" deep x 11/2" wide flanges and minimum 3/8" webs, 24" o.c. with 11/4" Type W drywall screws. Face layer 1/2" type X gypsum wallboard applied at right angles to channels with 15/8" Type S drywall screws 12" o.c. Face layer end joints located midway between channels and attached to base layer with 11/2" Type G screws 12" o.c. Edge joints offset 24" from base layer edge joints. Wood I-joists supporting 5/8" oriented strand board applied at right angles to Ijoists with 8d common nails 12" o.c.

RESILIENT CHANNELS

STC and IIC tested with 40 oz carpet over 1/4" foam pad.

ADD 3" MINERAL FIBER SOUND ATTENUATING INSULATION OVER RESILIENT CHANNELS BETWEEN JOISTS.

1 HOUR FIRE	50 to 54 STC SOUND
Thickness: Approx. Weight: Fire Test:	5 3/8" 7 psf Based on UL R3660-7, 11-12-87; UL R2717-61, 8-18-87; UL R7094,
Sound Test:	10-24-90; UL Design U311 Estimated

1 HOUR

FIRE

Sound Test: IIC & Test:

50 to 54 STC

SOUND

NRCC A-4440.1 (Revised),

NRCC B-3150.2, 6-30-00

NRCC B-3150.2, 6-30-00

6-24-97

INTERIOR SIDE: Base layer 5/8" type X gypsum wallboard or gypsum veneer base applied paralle or at right angles to studs with 6d coated nails, 17/8" long, 0.085" shank, 1/4" heads, 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied 61/8" without exterior cladding parallel or at right angles to studs with 8d coated nails, 23/8" long, 0.100" shank, 1/4" See WP 4135 (FM WP 360, 9-27-74) Joints staggered 24" each layer and side. (LOAD-BEARING) ADD MINIMUM R-15 INSULATION IN CAVITIES BETWEEN STUDS. WALLS AND INTERIOR PARTITIONS, WOOD-FRAMED 2 HOUR 40 to 44 STC GA FILE NO. WP 4135 FIRE SOUND GYPSUM WALLBOARD, WOOD STUDS Base layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to each side of 2 x 4 wood studs 24" o.c. with 6d coated nails, 1 7/8" long, 0.085" shank, 1/4" heads, 24" o.c. **Face** layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to each side with 8d coated nails, 2 3/8" long, 0.100" shank, Joints staggered 24" each layer and side. Sound tested with studs 16" o.c. and with

GENERIC

2 HOUR

FIRE

nails for base layer spaced 6" o.c. (LOAD-BEARING)

GYPSUM SHEATHING, GYPSUM WALLBOARD, WOOD STUDS

EXTERIOR SIDE: Base layer 5/8" type X gypsum sheathing applied parallel or at right

angles to 2 x 4 wood studs 24" o.c. with 6d coated nails, 17/8" long, 0.085" shank, 1/4"

heads, 24" o.c. Face layer 5/8" type X gypsum sheathing applied parallel or at right

angles to studs with 8d coated nails, 23/8" long, 0.100" shank, 1/4" heads, 8" o.c. Exterior

EXTERIOR WALL

GA FILE NO. WP 8415

cladding attached through sheathing to studs.

ADD 3" MINERAL FIBER SOUND ATTENUATING INSULATION OVER RESILIENT CHANNELS BETWEEN JOISTS.

Approx. Weight: 12 psf FM WP 360, 9-27-74 Fire Test: Sound Test: NGC 2363, 4-1-70

UL R4024, 00NK26545,

UL Design L556;

ULC Design M514

2 HOUR

FIRE

FLOOR-CEILING SYSTEMS. WOOD FRAMED

GA FILE NO. FC 5750 WOOD FLOOR, WOOD I-JOISTS, GYPSUM WALLBOARD, RIGID FURRING CHANNELS Base layer 5/8" type X gypsum wallboard applied at right angles to 91/2" deep wood I-joists 24" o.c. with 11/4" Type W drywall screws 12" o.c. Second layer 5/8" type X gypsum

wallboard applied at right angles to I-joists with 2" Type W drywall screws 12" o.c. Second layer joints offset 24" from base layer joints. Third layer 5/8" type X gypsum wallboard applied at right angles to I-joists with 21/2" Type W drywall screws 12" o.c. Third layer joints offset 12" from second layer joints. Hat-shaped rigid furring channels 24" o.c. applied at right angles to I-joists over third layer with two 21/2" long Type W drywall screws at each I-joist. Face layer 5/8" type X gypsum wallboard applied at right angles to furring channels with 11/8" Type S drywall screws 12" o.c. Wood I-joists supporting 3/4" T & G edge plywood floor applied at right angles to I-joists with 8d nails

Fire Test: 6" o.c. at joints and 12" at intermediate I-joists. Ceiling provides two-hour fireresistance protection for wood framing.

ADD 3" MINERAL FIBER SOUND ATTENUATING INSULATION OVER RESILIENT CHANNELS BETWEEN JOISTS.

-GRAB BAR

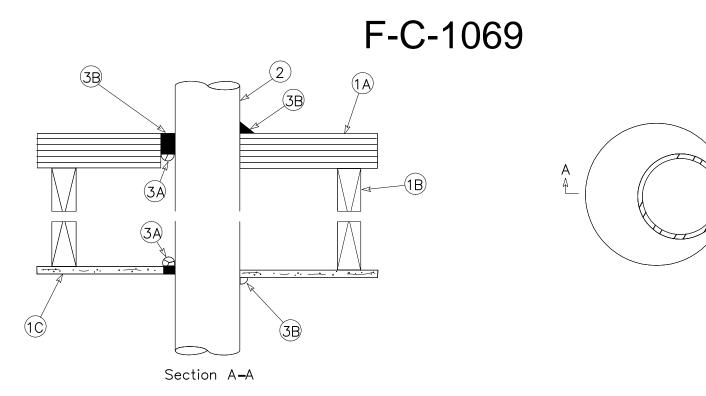
- ADJUSTABLE HEIGHT

ACCESSIBLE TYPE

SHOWER PAN W/ 1/2" MAX. LIP @ ENTRY

HAND SHOWER

STRUCTURAL DISCLAIMER - JOIST SIZE IS REFERENCED MINIMUM FOR FIRE RATING. STRUCTURAL DETERMINATION BY OTHERS



1. Floor/ceiling assembly:

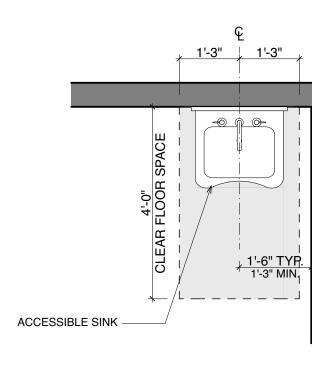
- A.. Flooring system: 5/8" thick plywood/2"x 4" continuous wood decking.
- B. Wood joist: Nom. 2" x 10" lumber joist.
- C. Ceiling system: 1 layer of 5/8" gypsum wallboard, per UL Design.

2. Metallic pipe:

- A. Steel pipe: 8" diameter (or smaller) schedule 40 (or heavier) steel pipe.
- B. Iron pipe: 8" diameter (or smaller) cast or ductile iron pipe. C. Conduit: 4" diameter (or smaller) electrical metallic tubing (EMT) or steel conduit.
- D. Copper tubing: 4" diameter (or smaller) Type L (or heavier) copper tubing.
- E. Copper pipe: 4" diameter (or smaller) regular (or heavier) copper pipe. Annular space from minimum 0" to maximum 7/8". 3. Forming and fire stop materials:

A. Forming material (optional): Foam backer rod packed into opening as a permanent form.

B. Type IA: Minimum 1/2" thick sealant applied within the annulus, flush with the top of the floor and bottom of the ceiling assemblies. Additional sealant to be applied such that a minimum 1/2" crown is formed around the penetrating item.



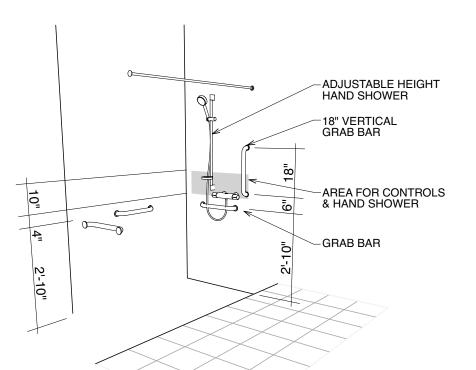
TYPICAL ACCESSIBLE TOILET SCALE: 1/2" = 1'-0"

CLEAR FLOOR SPACE

GRAB BARS

18" VERTICAL GRAB

GRAB BARS



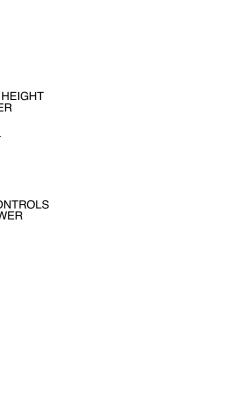
ROLL-IN TYPE SHOWER

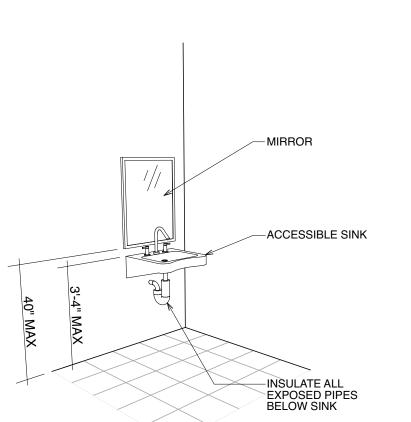
SCALE: 1/2" = 1'-0"

GRAB BAR —

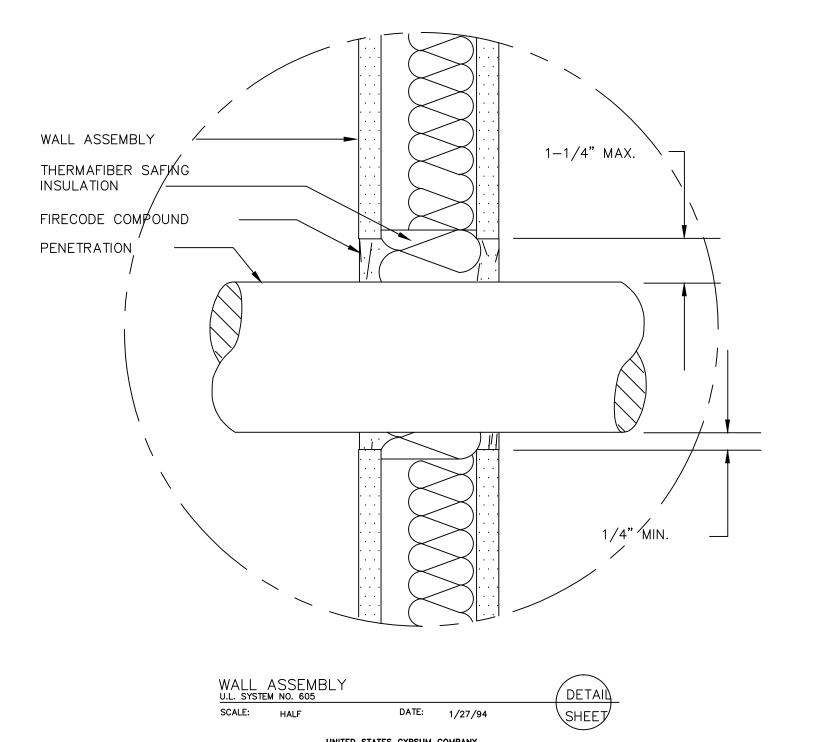


















ormer HOUSE hed **APARTMENT** Option

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GENERAL INFORMATION

Option #1:

Continuous sheathed method (CS-G) R603.10.4:

24" wide braced wall panel 8' plate = 27" wide braced wall panel 9' plate = 30" wide braced wall panel 33" wide braced wall panel 10' plate = 36" wide braced wall panel

WALL CONSTRUCTION

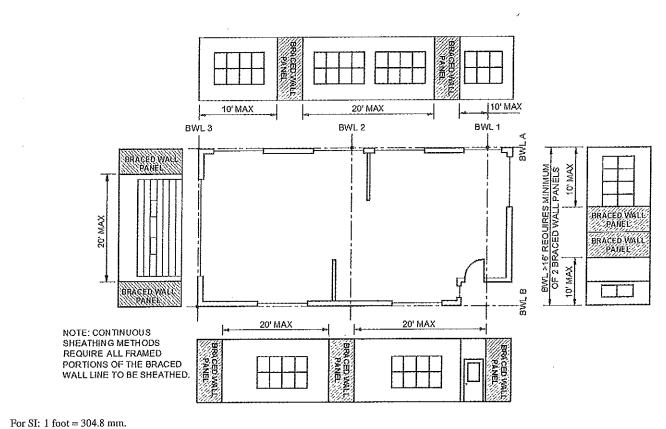


FIGURE R602.10.2.2

LOCATION OF BRACED WALL PANELS

Wall Bracing Simplified

<u> Option # 5</u>

Continuous Sheathed Portal Frame (CS-PF), R602.10.6.4

16" wide braced wall panel 18" wide braced wall panel 9' plate =

• 11' plate= 22" wide braced wall panel • 12' plate = 24" wide braced wall panel

• 10' plate = 20" wide braced wall panel

*Special straps required per Figure R602.10.6.4 *Braced wall panels within 10' of corners and every 20' on wall length EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (TWO BRACED WALL PANELS)-EXTENT OF HEADER WITH SINGLE PORTAL FRAME
ONE BRACED WALL PANEL) 2'-18' FINISHED WIDTH OF OPENING FOR SINGLE OR DOUBLE PORTAL BRACED WALL LINE

CONTINUOUSLY SHEATHED,
WITH WOOD STRUCTURAL 7
PANELS MIN. 3"x111/1" NET HEADER STEEL HEADER PROHIBITED IF 1/2" SPACER IS USED, PLACE ON BACK-SIDE OF HEADER - MIN, LENGTH OF PANEL PER TABLE R602.10.5 OVER CONCRETE OR MASONRY BLOCK FOUNDATION WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST-OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION (WHERE PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST)

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm. FIGURE R602.10.6.4 METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JO

SECTION

OVER RAISED WOOD FLOOR - OVERLAP OPTION

FRONT ELEVATION

Wall Bracing Simplified

²⁰¹⁵ INTERNATIONAL RESIDENTIAL CODE®

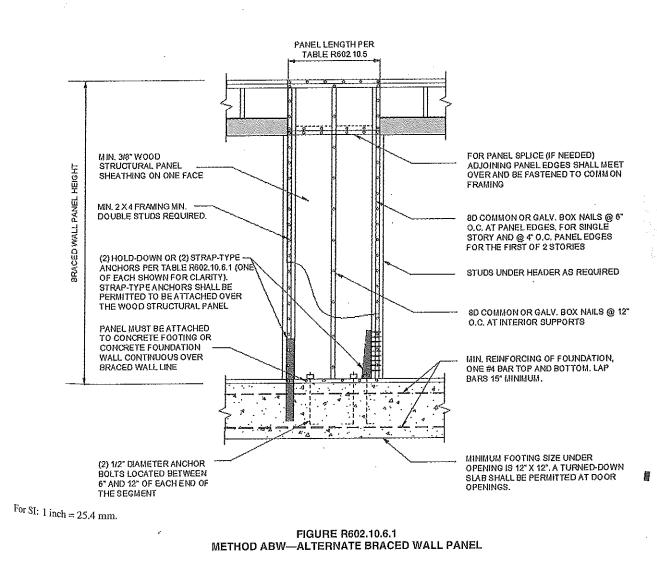
Option #2:

Alternate Braced Wall Panel (ABW) 602.10.6.1:

28" wide braced wall panel 8' plate = 32" wide braced wall panel

10' plate = 34" wide braced wall panel 12' plate = 42" wide braced wall panel

*Special straps required per Figure R602.10.6.1 *Braced wall panels within 10' of corners and every 20' on wall length



Wall Bracing Simplified

Option #3:

Portal Frame with Hold-Downs (PFH), R602.10.6.2:

Supporting roof only:

•	8' plate =	16" wide braced wall panel
	9' plate =	16" wide braced wall panel
•	10' plate =	16" wide braced wall panel
•	11' plate=	18" wide braced wall panel
•	12' plate =	20" wide braced wall panel

Two story:

0	8′ plate =	24" wide braced wall panel
•	9′ plate =	24" wide braced wall panel
•	10' plate =	24" wide braced wall panel
0	11' plate=	27" wide braced wall panel
•	12' plate =	29" wide braced wall panel

*Special straps required per Figure R602.10.6.2 *Braced wall panels within 10' of corners and every 20' on wall length

WALL CONSTRUCTION

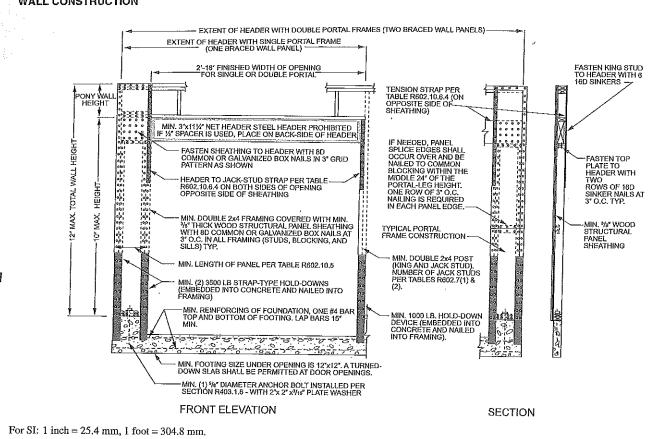


FIGURE R602.10.6.2 METHOD PFH---PORTAL FRAME WITH HOLD-DOWNS

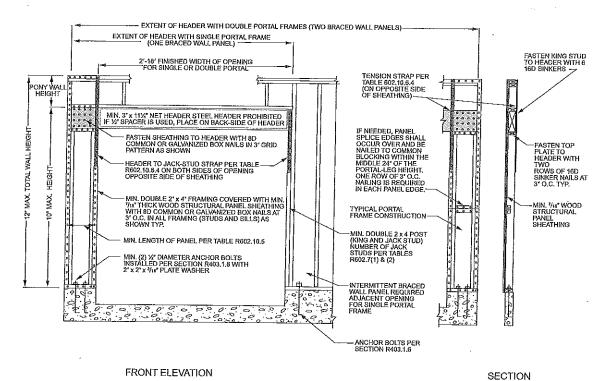
Wall Bracing Simplified

Option #4:

Portal Frame at Garage Opening (PFG), R602.10.6.3

8	8' plate =	24" wide braced wall panel
6	9' plate =	27" wide braced wall panel
•	10' plate =	30" wide braced wall panel
•	11' plate=	33" wide braced wall panel
•	12' plate =	36" wide braced wall panel

*Special straps required per Figure R602.10.6.3 *Braced wall panels within 10' of corners and every 20' on wall length

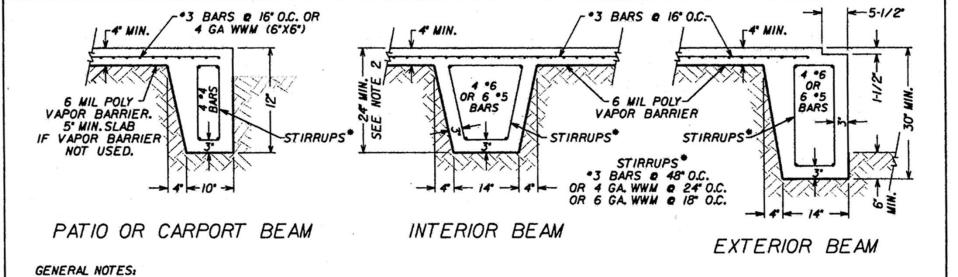


For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

2015 INTERNATIONAL RESIDENTIAL COD

FIGURE R602.10.6.3

METHOD PFG-PORTAL FRAME AT GARAGE DOOR OPENINGS IN SEISMIC DESIGN CATEGORIES A, B AND C



- I. Exterior beam shall extend a minimum of 6 inches into undisturbed soil or fill which is compacted to 95% Standard Proctor (ASTM D 698) within (±) 2% of optimum moisture content. All fill material shall have a
- Plasticity Index (P.IJ between 5 and 18. 2. Interior beams that exceed 60 ft.in length must be a minimum of 30 inches deep. 3. Maximum beam spacing shall be 15 feet and shall be continuous over the length or width of the foundation.
- 4. Steel to be set to clear bare earth minimum 3 Inches, wood or steel forms by I-I/2 Inches. 5. Minimum concrete specified compression strength shall be 3000 psi e 28 days.
- 6. Masonry fireplace footings shall be a minimum of 30 Inches deep with 2 mats of *5's @ 12 Inches on center both ways.
- 7. These minimum standards shall apply to all foundations. Exceptions:
- A. Foundations for temporary buildings and permanent buildings not exceeding one story in height and 400 square feet in area.
- B. Foundations designed by an Architect registered in the State of Texas or a civil/structural Engineer
- 8. All foundations designed by an Architect or Engineer shall be installed as designed. Revisions and exceptions
- *5 15° 1-9/16° *6 20° 2-1/4° *7 26° 2-5/8° *8 35° 3° registered in the State of Texas and approved for use by the Building Official. must be submitted in writing by the Architect or Engineer and approved by the Building Official. 9. Reinforcing steel shall be grade 60 (grade 40 allowed for stirrups only). All deformations shall meet ASTM A615.

MINIMUM FOUNDATION STANDARDS

REV. C ~ OCTOBER 31, 2001 ~ SHEET 1 OF 1

BUILDING SERVICES DIVISION

INTERIOR SLAB DROP

BAR MIN.LAP MIN.RADIUS SIZE INCHES OF BENDS *3 12* 15/16*



S O 9 o 0 **PARTM** ption 0

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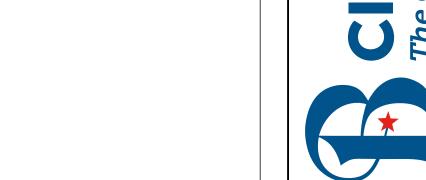
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FLOOR PLAN LEGEND

SHADED WALLS INDICATE FIRE RATED WALL CONSTRUCTION TO SEPARATE UNITS. SEE WALL TAG ON FLOOR PLAN FOR NUMBER OF HOURS WALL IS REQUIRED TO BE RATED FOR. SEE SHEET A0 FOR DETAILS ON RATED ASSEMBLY.



SHADED FLOOR AREA INDICATES 2 HOUR FIRE RATED FLOOR CONSTRUCTION TO SEPARATE UNITS. SEE SHEET A0 FOR DETAILS ON RATED ASSEMBLY.



SHADED FLOOR AREA INDICATES AREAS WITH EITHER A DROPPED CEILING OR A SOFFIT FRAMED AT 7'-6" ABOVE FINISH FLOOR TO ACCOMMODATE AN ABOVE CEILING H.V.A.C. UNIT & DUCTWORK TO SERVE ADJACENT ROOMS.

GENERAL NOTES

- LOCATE AND MARK ALL UTLITY, SERVICE AND SYSTEMS LOCATIONS PRIOR TO COMMENCEMENT OF WORK. FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITY COMPONENTS.
- DIMENSIONS ARE SHOWN TO BE FACE OF NOMINAL STUDS, MASONRY VENEER AND TO THE CENTERLINES OF DOORS, WINDOWS AND COLUMNS. (UNLESS NOTED OTHERWISE)
- PROVIDE WOOD BLOCKING IN WALLS AS REQUIRED TO INSTALL CABINETS, HANDRAILS, TOILET ACCESSORIES, ADA ACCESSIBLE ACCESSORIES PER FAIR HOUSING REQUIREMENTS, ETC.
- FINISH MATERIALS ARE TO BE INSTALLED BEHIND AND BENEATH APPLIANCES, KNEE SPACES, MOVE-ABLE EQUIPMENT, ETC...
- COORDINATE EQUIPMENT ROUGH OPENING SIZES AND LOCATIONS WITH THE RESPECTIVE EQUIPMENT.
- INSTALL INTERIOR DOORS SUCH THAT THERE IS A 4" CLEAR ON THE HINGE SIDE OF THE DOOR TO ADJACENT FINISHED WALL SURFACE (UNLESS NOTED OTHERWISE).
- NOTE: BUILDINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TEXAS ACCESSIBILITY STANDARDS AND ICC/ANSI A 117.1. GROUND FLOOR DWELLING UNITS TO COMPLY WITH FAIR HOUSING (FH) REQUIREMENTS, NOTE THAT FH REQUIREMENTS VARY DEPENDING ON THE NUMBERS OF UNITS PER SITE WITH MULTIPLE BUILDINGS
- FOUNDATION PLAN AND DETAILS (PLANS TO SHOW COMPLIANCE WITH CITY OF BRYAN MINIMUM FOUNDATION STANDARDS OR AN APPROVED ENGINEERED DESIGN PRIOR TO CONSTRUCTION) SEE SHEET A0.1
- EXTERNAL HVAC UNITS WILL BE INSTALLED ON THE REAR OR SIDES OF RESIDENCE ONLY. UNITS ARE TO BE PLACED OUT OF CRITICAL
- 10 EXTERNAL ELECTRICAL PANEL LOCATIONS SHALL BE LOCATED ON THE REAR OR SIDES OF RESIDENCE ONLY.
- SEE THE "CITY OF BRYAN RESIDENTIAL BUILDING PERMIT APPLICATION REQUIREMENTS" FOR LIST OF DETAILS REQUIRED TO FINISH THIS SET OF DRAWINGS.

PARTMENT Option

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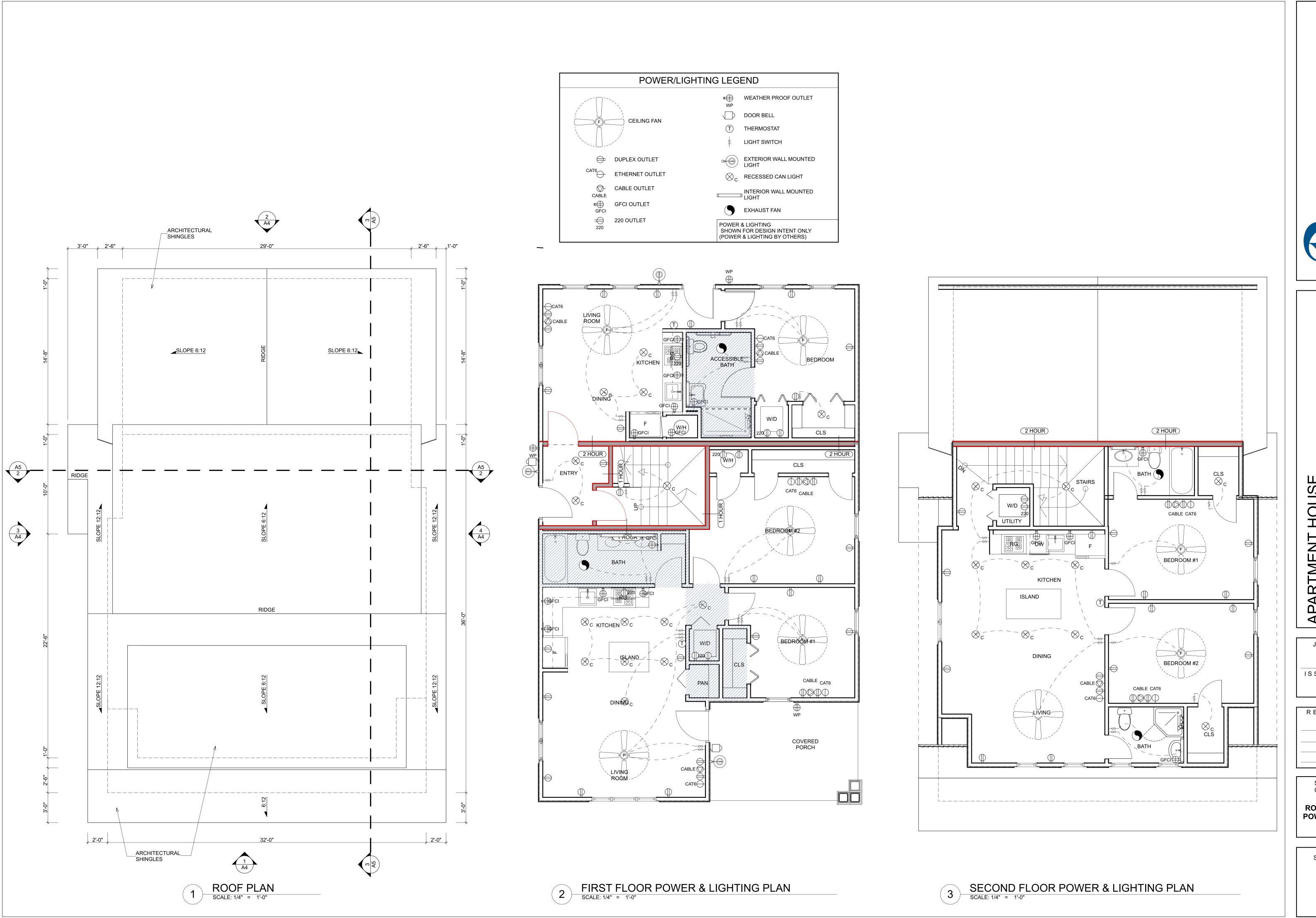
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FLOOR PLANS

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A2



CITY OF BRYAN
The Good Life, Texas Style.

HOUSE Dormer Apartment House

APART

Option

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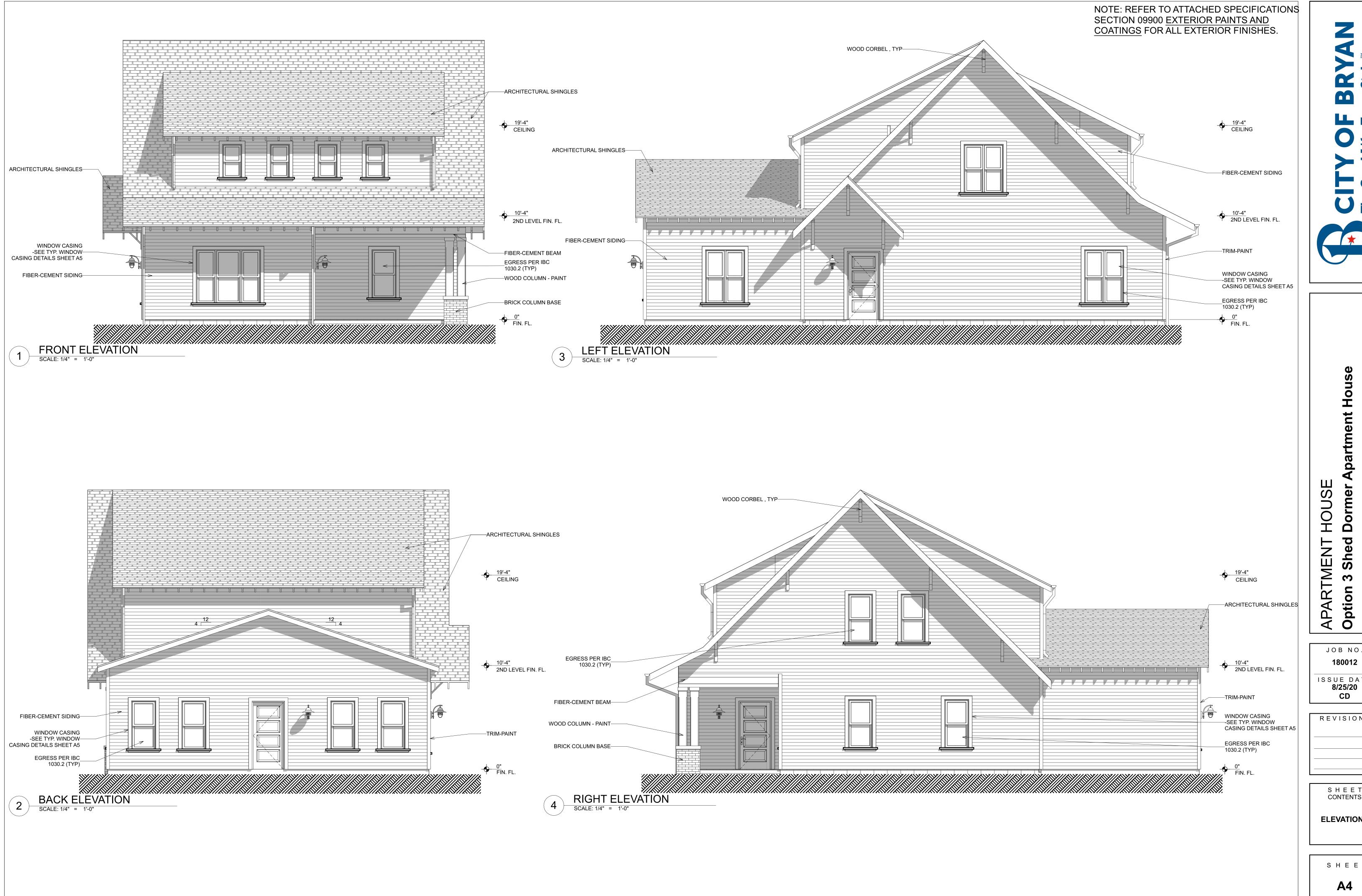
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